



Adentro Overview

Adentro provides consumers with an amazing WiFi experience at their favorite spots, while helping to grow local businesses by better engaging and targeting their customers. By offering a branded captive portal for your guest WiFi network, customers are given the ability to opt-in to targeted messaging sent using the Adentro platform.

Adentro Configuration

This document provides basic details necessary for configuring a Cisco Wireless LAN Controller with the Adentro captive portal.

Note: This guide is not compatible with Cisco WAP series APs or EWC.

Identifying Cisco Access Points

Adentro identifies Cisco access points by their wireless MAC address. This can be retrieved via the WLC's UI. Adentro requires the **Base Radio MAC** for each access point that the guest wifi will operate on. The Base Radio MAC can be located in the AP details page under WIRELESS - All APs.

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FlexConnect ACLs

802.11a/n/ac

802.11b/g/n

Media Stream

Application Visibility And Control

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All APs

Current Filter

None

[Change Filter] [Clear Filter]

Number of APs

1

AP Name	IP Address	AP Model	AP MAC	AP I
CiscoAP00fe.c831.d67c	192.168.0.54	AIR-CAP3702I-A-K9	00:fe:c8:31:d6:7c	4 d,

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All APs > Details for CiscoAP00fe.c831.d67c

General

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General

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IP Config

Time Statistics

AP Name

CiscoAP00fe.c831.d67c

Location

default location

AP MAC Address

00:fe:c8:31:d6:7c

Base Radio MAC

00:fe:c8:2e:a3:c0

Admin Status

Enable

AP Mode

local

AP Sub Mode

None

Operational Status

REG

Port Number

1

Venue Group

Unspecified

Venue Type

Unspecified

Venue Name

Language

Network

Primary Software Version

7.6.130.0

Backup Software Version

0.0.0.0

Predownload Status

None

Predownload Version

None

Predownload Next Retry Time

NA

Predownload Retry Count

NA

Boot Version

15.2.4.0

IOS Version

15.2(4)JB6\$

Mini IOS Version

8.0.115.0

IP Address

192.168.0.54

Static IP

☐

UP Time

4 d, 17 h, 24 m, 04 s

Create Pre-Authentication ACL

The pre-authentication ACL should allow access to all Adentro portal servers as well as your DNS and DHCP servers.

HTTP and HTTPS access must be permitted to the following IP addresses for [gateway.wifast.com](#):

54.68.53.46

54.68.126.162

54.68.113.153

54.214.242.30

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Priority Order

Certificate

Access Control Lists

Access Control Lists

CPU Access Control Lists

FlexConnect ACLs

Layer 2 ACLs

Access Control Lists > Edit

General

Access List Name

Zenreach

Deny Counters

204

Seq	Action	Source IP/Mask	Destination IP/Mask	Protocol	Source Port	Dest Port	DSCP	Direction	Number of Hits
1	Permit	0.0.0.0 / 0.0.0.0	54.68.126.162 / 255.255.255.255	TCP	Any	Any	Any	Any	262
2	Permit	0.0.0.0 / 0.0.0.0	54.68.113.153 / 255.255.255.255	TCP	Any	Any	Any	Any	0
3	Permit	0.0.0.0 / 0.0.0.0	54.68.53.46 / 255.255.255.255	TCP	Any	Any	Any	Any	253
4	Permit	54.68.126.162 / 255.255.255.255	0.0.0.0 / 0.0.0.0	TCP	Any	Any	Any	Any	248
5	Permit	54.68.113.153 / 255.255.255.255	0.0.0.0 / 0.0.0.0	TCP	Any	Any	Any	Any	0
6	Permit	54.68.53.46 / 255.255.255.255	0.0.0.0 / 0.0.0.0	TCP	Any	Any	Any	Any	235

RADIUS Configuration

The guide linked above configures the controller to use local authentication. You must instead add the Adentro RADIUS servers as AAA auth and accounting servers and configure the WLAN to use them.

RADIUS Authentication

Step 1: In the left pane, expand **AAA**, then **RADIUS**, then click **Authentication**.

Step 2: Set **Auth Called Station ID Type** to **AP MAC Address**.

Step 3: Set **MAC Delimiter** to **Colon**.

Step 4: Click **New**.

Step 5: Enter the information in the tables below.

Step 6: Click **Apply**.

Step 7: Repeat steps 3-5 for the second table.

Server IP Address: 54.69.8.147

Shared Secret Format: ASCII

Shared Secret: 8fc40973252c42e196489d4a16849ff8

Confirm Shared Secret: 8fc40973252c42e196489d4a16849ff8

Port Number: 1812

Server Timeout: 5

Server IP Address: 54.68.29.80

Shared Secret Format: ASCII

Shared Secret: 8fc40973252c42e196489d4a16849ff8

Confirm Shared Secret: 8fc40973252c42e196489d4a16849ff8

Port Number: 1812

Server Timeout: 5

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TrustSec SXP

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RADIUS Authentication Servers

Auth Called Station ID Type

AP MAC Address

Use AES Key Wrap

☐

(Designed for FIPS customers and requires a key wrap compliant RADIUS server)

MAC Delimiter

Colon

Framed MTU

1300

Network User	Management	Server Index	Server Address(Ipv4/Ipv6)	Port	IPSec	Admin Status
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	* 54.69.8.147	1812	Disabled	Enabled <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	* 54.68.29.80	1812	Disabled	Enabled <input checked="" type="checkbox"/>

RADIUS Accounting

Use the same settings as above, but change the port to 1813 for each server.

RADIUS Configuration

Step 1: Open the **WLANs** page.

Step 2: Click **WLANs** in the left pane, and select the WLAN you want to edit.

Step 3: Click the **Security** tab.

Step 4: Click the **AAA Servers** tab.

Step 5: Check the **Enabled checkboxes for Authentication Servers** and **Accounting Servers**.

Step 6: Add the two servers that were just set up under **Authentication Servers** and **Accounting Servers**.

Step 7: Check the **Interim Update** checkbox.

Step 8: Set **Interim Interval to 180**.

CISCO **MONITOR** **WLANs** **CONTROLLER** **WIRELESS** **SECURITY** **MANAGEMENT** **COMMANDS** **HELP** **FE**

WLANs

WLANs

Advanced

WLANs > Edit 'CiscoProd'

General **Security** **QoS** **Policy-Mapping** **Advanced**

Layer 2 **Layer 3** **AAA Servers**

Select AAA servers below to override use of default servers on this WLAN

RADIUS Servers

RADIUS Server Overwrite interface ☐ Enabled

	Authentication Servers	Accounting Servers	EAP Parameters
	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled	Enable <input type="checkbox"/>
Server 1	IP:54.69.8.147, Port:1812	IP:54.69.8.147, Port:1813	
Server 2	IP:54.68.29.80, Port:1812	IP:54.68.29.80, Port:1813	
Server 3	None	None	
Server 4	None	None	
Server 5	None	None	
Server 6	None	None	

RADIUS Server Accounting

Interim Update ☒ Interim Interval 180

LDAP Servers

Step 9: Click the **Advanced** tab.

Step 10: Check the **Enable Session Timeout** checkbox and enter a value of **86400 seconds (24 hours)**.

Step 11: Check the **Client User Idle Timeout** checkbox and enter a value of **3600 seconds (1 hour)**.

Step 12: Set **Client User Idle Threshold** to **0 bytes**.

WLANs > Edit 'CiscoProd'

General **Security** **QoS** **Policy-Mapping** **Advanced**

Allow AAA Override ☐ Enabled

Coverage Hole Detection ☒ Enabled

Enable Session Timeout ☒ 86400
Session Timeout (secs)

Aironet IE ☐ Enabled

Diagnostic Channel ☐ Enabled

Override Interface ACL IPv4: None IPv6: None

Layer2 Acl: None

P2P Blocking Action: Disabled

Client Exclusion ☒ Enabled
Timeout Value (secs): 60

Maximum Allowed Clients: 0

Static IP Tunneling ☐ Enabled

Wi-Fi Direct Clients Policy: Disabled

Maximum Allowed Clients Per AP Radio: 200

Clear HotSpot Configuration: ☐ Enabled

Client user idle timeout(15-100000): ☒ 3600
Timeout Value (secs)

Client user idle threshold (0-10000000): 0 Bytes

DoSCP

DoSCP Server ☐ Override

DoSCP Addr. Assignment ☐ Required

OEAP

Split Tunnel (Printers) ☐ Enabled

Management Frame Protection (MFP)

MFP Client Protection ☒ Optional

DTIM Period (in beacon intervals)

802.11a/n (1 - 255): 1

802.11b/g/n (1 - 255): 1

NAC

NAC State: None

Load Balancing and Band Select

Client Load Balancing ☐

Step 13: Click **Apply**.

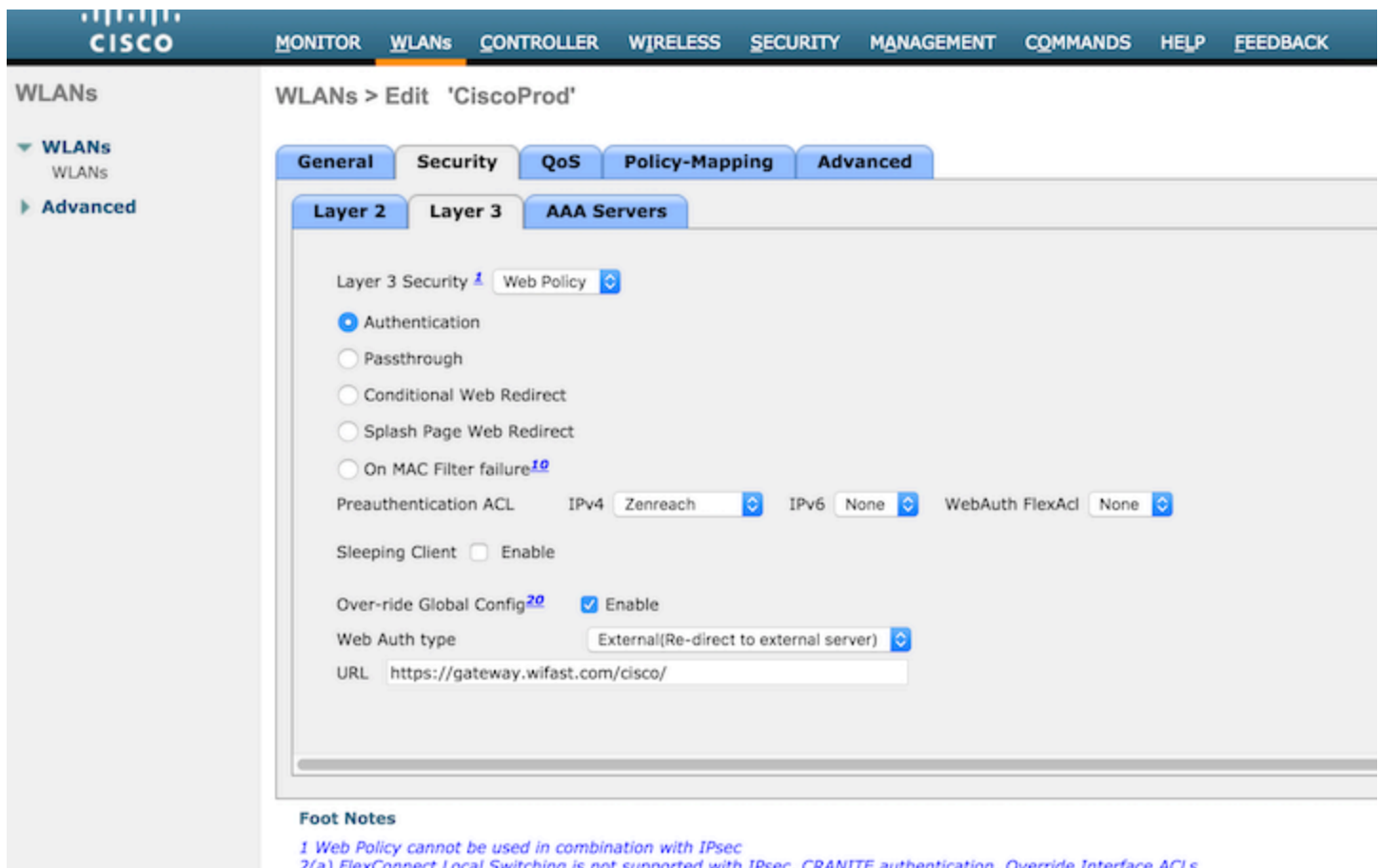
External Web Authentication

The WLC may have external web auth enabled globally or on a per-WLAN basis. In both cases the following External Webauth URL must be used:

<https://gateway.wifast.com/cisco/>

Remember to assign the Pre-Authentication ACL created previously to the WLAN.

The screenshot below shows the External Webauth URL set on a per-WLAN basis.



Disable WebAuth SecureWeb and HTTPS Redirection

Make sure the **WebAuth SecureWeb** and **HTTPS Redirection** (only present after firmware version 8.x) settings are disabled, otherwise after clicking the "Connect" button the user will be presented with a SSL error and will be unable to login. This can be resolved by disabling WebAuth SecureWeb and HTTPS Redirection on the controller.

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anagement

Summary

SNMP

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Telnet-SSH

Serial Port

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Software Activation

Tech Support

HTTP-HTTPS Configuration

HTTP Access

Enabled

HTTPS Access

Enabled

WebAuth SecureWeb

Disabled

HTTPS Redirection

Disabled

Web Session Timeout

30

Minutes

Current Certificate

Name:

bsnSslWebadminCert

Type:

3rd Party

Serial Number:

1442843552

Valid:

From Jun 28 00:00:01 2016 GM

Subject Name:

C=US, O=Cisco Systems Inc., C

Issuer Name:

C=US, O=Cisco Systems Inc., C

MD5 Fingerprint:

c9:7f:d3:90:7c:1c:2d:83:33:1a

Make sure the configuration is saved and WLC rebooted after the configuration change.

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Commands

Download File

Upload File

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Config Boot

Scheduled Reboot

Reset to Factory Default

Set Time

Login Banner

System Reboot

Warning: The configuration of the controller is changed and not saved yet. Click on "Save and Reboot" to save the changes before the controller is rebooted, or click on "Reboot without Save" to reboot the controller without saving the changes. Please be aware that in either case, all the connections will be lost. To regain the connection, please log in again after the controller is rebooted.

Save and Reboot

Reboot without Save